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Modified diene polymer, used for automobile tires, is produced by reacting active conjugated diene polymer having alkali metal at terminal with silsesquioxane having specific functional group

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Patent Family:

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Patent Details:

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JP 2002080534	A		10	C08F-036/04	

Abstract (Basic): JP 2002080534 A

NOVELTY - Silsesquioxane modified diene polymer is produced by: (1) polymerization of conjugated diene monomer or conjugated diene monomer with vinyl aromatic monomer, employing an alkali metal type initiator to give active conjugated diene polymer having alkali metal at the terminal; and (2) reacting the active conjugated diene polymer having alkali metal at the terminal with a silsesquioxane compound having specific functional group.

DETAILED DESCRIPTION - A silsesquioxane modified diene polymer is produced by: (1) polymerization of a conjugated diene monomer, or a conjugated diene monomer with a vinyl aromatic monomer by employing an alkali metal type initiator to give an active conjugated diene polymer having an alkali metal at the terminal; and (2) reacting the active conjugated diene polymer having an alkali metal at the terminal with a silsesquioxane compound having a specific functional group which is selected from alkoxy, alkoxysilyl, epoxy, glycidyl, carbonyl, ester, vinyl, styryl, chlorine atom, bromine atom and iodine atom, 1-20C hydrocarbon group to which the above-mentioned functional group is bonded, a 1-8C silyl group to which the above-mentioned functional group is bonded and siloxane group.

USE - The silsesquioxane modified diene polymer is useful for automobile tires.

ADVANTAGE - The tires produced from the silsesquioxane modified diene polymer have low rolling resistance, and high wet skid resistance, thereby show high fuel saving properties, and high damping properties.

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Title Terms: MODIFIED; DIENE; POLYMER; AUTOMOBILE; PRODUCE; REACT; ACTIVE;
CONJUGATE; DIENE; POLYMER; ALKALI; METAL; TERMINAL; SILSESQUOXANE;
SPECIFIC; FUNCTION; GROUP

Derwent Class: A12; A26; A95

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(以上)